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A. Chang, M. Mergen

November 1987

ACM SIGOPS Operating Systems Review, Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87, Volume 21
 Issue 5

Publisher: ACM Press

Full text available: [pdf\(181.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IBM RT PC implements the necessary features of 801 storage architecture. The upper 4 bits of a 32-bit short address select one of 16 segment registers. A 12-bit segment id from the register replaces the 4 bits to form a 40-bit long virtual address. This creates a single large space of 4096 256M-byte segments. Only the supervisor may load segment registers and may therefore control access to and sharing of segments. A long virtual address ...

2 [On-line computer auditing](#)

Harvey S. Koch

January 1979

Proceedings of the 1979 annual conference ACM 79

Publisher: ACM Press

Full text available: [pdf\(285.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

An auditing technique that audits transactions as they are being processed will be introduced. Concurrent and Intermittent Simulation (CIS) is an auditing technique that is very similar to parallel simulation in terms of the amount of work and type of code that must be completed by the auditor. However, in terms of capabilities, CIS is much more advanced than parallel simulation. CIS is an auditing technique that simulates the instruction execution of the application at the time ...

3 [Search: Determining the user intent of web search engine queries](#)

Bernard J. Jansen, Danielle L. Booth, Amanda Spink

May 2007

Proceedings of the 16th international conference on World Wide Web WWW '07

Publisher: ACM Press

Full text available: [pdf\(195.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Determining the user intent of Web searches is a difficult problem due to the sparse data available concerning the searcher. In this paper, we examine a method to determine the user intent underlying Web search engine queries. We qualitatively analyze samples of queries from seven transaction logs from three different Web search engines containing


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1 [O\(log² n\) time efficient parallel factorization of dense, sparse separable, and banded matrices](#)



John H. Reif

August 1994

Proceedings of the sixth annual ACM symposium on Parallel algorithms and architectures SPAA '94

Publisher: ACM Press

Full text available: pdf(1.31 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Known polylog parallel algorithms for the solution of linear systems and related problems require computation of the characteristic polynomial or related forms, which are known to be highly unstable in practice. However, matrix factorizations of various types, bypassing computation of the characteristic polynomial, are used extensively in sequential numerical computations and are essential in many applications. This paper gives new parallel methods for various exact factorization ...

Keywords: LU factorization, Newton iteration, banded matrices, dense matrices, linear systems, parallel algorithms, sparse matrices

2 [Deterministic distributed resource discovery \(brief announcement\)](#)



Shay Kutten, David Peleg

July 2000

Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing PODC '00

Publisher: ACM Press

Full text available: pdf(93.74 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The resource discovery problem was introduced by Harchol-Balter, Leighton and Lewin in [HLL99], as a part of their work on web caching. They developed a randomized algorithm for the problem in the weakly connected directed graph model, that was implemented within LCS at MIT, and then licensed to Akamai Technologies. The directed graph is a logical one (as opposed to the underlying communication graph). It represents the nodes' "knowledge" about the to ...

3 [Efficient parallel solution of linear systems](#)



V Pan, J Reif

December 1985

Proceedings of the seventeenth annual ACM symposium on Theory of computing STOC '85